

# MEASUREMENT OF COMPRESSED AIR CONSUMPTION



**SONOAIR IL**  
IN-LINE FLOW METER FOR COMPRESSED AIR

*easy  
fast  
save  
low cost*

# SONOAIR IL

## In-Line Flow Meter for compressed air

The SONOAIR IL is a compact In-Line-Flow Meter system for compressed air and other gases. Because of the high turndown ratio and low pressure drop, the SONOAIR is a suitable device for many applications. The measured data processing takes place by industrial standard interfaces or via PC.

### Application

- Flow measurements of compressed air
- Control of energy consumption
- Control of pneumatic systems

### Advantages

- Advantages
- Low resistivity
- Variable measuring data processing
- Easy installation and use

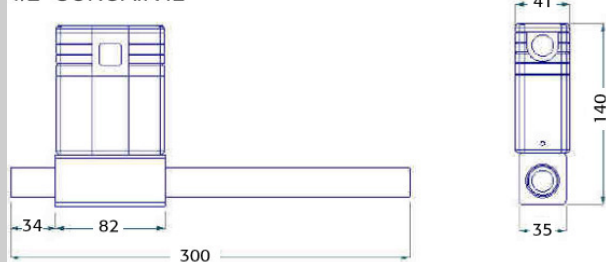
### Features

- Modern (silicon) solid state flow sensor
- Calorimetric measuring principle
- Display for flow-rate and total consumption
- Analogue output 4 ... 20 mA
- Pulse output
- RS232 interface

### Installation

- Delivery with inlet and outlet pipe and screw pipe connections
- Measuring system is to install on a suitable place in the pipe system
- Pipe ends with thread have to be provided by the customer

1/2" SONOAIR IL



- Direct readout of flow
- Direct readout of total consumption
- Backlit display

## Specifications

Measurement specifications	
Accuracy	< 2% of full scale incl. calibration certificate
Zero cut off point	Depends on the model. Mostly 2% of the maximum value (1:50 rate)
Temperature range	0 ... 50 °C
Pressure range	16 bar
Humidity	Max. 95% relative humidity, non condensing
Gases	Compressed air, nitrogen, non corrosive gases
Mechanical specifications	
Dimensions	1/2" model: 300 mm x 35 mm x 140 mm 1" model: 500 mm x 60 mm x 150 mm 2" model: 750 mm x 70 mm x 160 mm
Protection type	IP 55. For outdoor use a safety cabinet is required
Parts with contact to the media	Epoxy, glass, stainless steel 304, aluminum
Electrical specifications	
Outputs / Interfaces	RS232, 4 ... 20 mA, pulse via cable
Power supply	12 ... 24 V DC current drain (typical) < 100 mA max. 500 mA by switching on
Connection	Multi pole connector
EMC	EN 61326-1

Dimension	Nominal diameter	Measuring range Nm <sup>3</sup> /h	Measuring range [Nm <sup>3</sup> /min]
1/2"	15	0 ... 30	0 ... 500
1"	25	0 ... 120	0 ... 2000
2"	50	0 ... 750	0 ... 125000